

CLAIMS:

1. Transmitter for transmitting packet data and comprising a detector for detecting packet data to be transmitted, characterized in that said transmitter comprises a selector for in response to a detection result of a real-time requirement selecting a first coding scheme and a first modulation scheme for coding and modulating said packet data and for in
5 response to a non-real-time requirement selecting a second coding scheme and a second modulation scheme for coding and modulating said packet data.
2. Transmitter according to claim 1, characterized in that said first coding scheme comprises a convolutional code and said first modulation scheme comprises an
10 adaptive orthogonal frequency division modulation scheme and said second coding scheme comprises a turbo code and said second modulation scheme comprises an orthogonal frequency division modulation scheme.
3. Transmitter according to claim 2, characterized in that a further detection
15 result comprises a target bit error rate and/or a payload bit rate.
4. Transmitter according to claim 3, characterized in that said transmitter comprises a further detector for detecting channel conditions.
- 20 5. Transmitter according to claim 4, characterized in that said transmitter comprises a processor system for running an algorithm.
6. Transmitter according to claim 5, characterized in that said algorithm comprises a rate adaptive algorithm for evaluating a maximum available bit rate in
25 dependence of said channel conditions.
7. Transmitter according to claim 6, characterized in that said algorithm further comprises a margin adaptive algorithm for computing a bit loading in dependence of an actual bit rate.

8. Transmitter according to claim 7, characterized in that said transmitter comprises a code rate adapter for in response to a detection result of a real-time requirement and to a further detection result of a target bit error rate adapting a code rate for said
5 computing.

9. Transmitter according to claim 7, characterized in that said transmitter comprises a generator for in response to a detection result of a non-real-time requirement and to a further detection result of a target bit error rate generating a code rate and/or a block
10 length and/or a number of iterations and/or code parameters.

10. Processor system for use in a transmitter for transmitting packet data and comprising a detector for detecting packet data to be transmitted, characterized in that said processor system comprises a selector for in response to a detection result of a real-time
15 requirement selecting a first coding scheme and a first modulation scheme for coding and modulating said packet data and for in response to a non-real-time requirement selecting a second coding scheme and a second modulation scheme for coding and modulating said packet data.

20 11. Method for transmitting packet data and comprising the step of detecting packet data to be transmitted, characterized in that said method comprises the step of in response to a detection result of a real-time requirement selecting a first coding scheme and a first modulation scheme for coding and modulating said packet data and of in response to a non-real-time requirement selecting a second coding scheme and a second modulation
25 scheme for coding and modulating said packet data.

12. Processor program product for use in a transmitter for transmitting packet data and comprising the function of detecting packet data to be transmitted, characterized in that said processor program product comprises the function of in response to a detection result of
30 a real-time requirement selecting a first coding scheme and a first modulation scheme for coding and modulating said packet data and of in response to a non-real-time requirement selecting a second coding scheme and a second modulation scheme for coding and modulating said packet data.